What is claimed is:

- 1 1. An apparatus, comprising:
- a first electronic device adapted to
- 3 compare a first indicator of a predicted duration of a first transmission to
- a second electronic device with a second indicator of a predicted duration of a second
- 5 transmission to a third electronic device;
- adjust starting times of at least one of the first and second transmissions
- to cause the first and second transmissions to end at approximately a same time; and
- 8 transmit the first and second transmissions using the adjusted starting
- 9 times.
- 1 2. The apparatus of claim 1, wherein the first electronic device is further adapted
- 2 to receive a first response comprising a first acknowledgment to the first transmission
- 3 from the second electronic device and to receive a second response comprising a
- 4 second acknowledgment to the second transmission from a third electronic device.
- 1 3. The apparatus of claim 1, wherein the first electronic device is further adapted
- 2 to include a poll in the first transmission and to include a poll and other data in the
- 3 second transmission.
- 1 4. The apparatus of claim 1, wherein the first electronic device is further adapted
- 2 to set a transmission period for the first and second transmissions based on a longer of
- 3 the predicted durations of the first and second transmissions.

- 1 5. The apparatus of claim 1, wherein:
- the first transmission and the second transmission are to have different data
- 3 rates; and
- 4 the predicted durations of the first and second transmissions are partly based on
- 5 the different data rates.
- 1 6. The apparatus of claim 1, wherein the first electronic device comprises a
- 2 computing platform to perform said comparing.
- 1 7. The apparatus of claim 6, further comprising at least four
- 2 modulator/demodulators coupled to the computing platform.
- 1 8. The apparatus of claim 7, further comprising at least four antennas, each of the
- 2 at least four antennas coupled to at least one of the at least four
- 3 modulator/demodulators.
- 1 9. The apparatus of claim 1, wherein the first electronic device comprises a base
- 2 station.
- 1 10. The apparatus of claim 1, wherein the second and third electronic devices
- 2 comprise mobile devices.
- 1 11. The apparatus of claim 1, wherein the first electronic device is further adapted
- 2 to transmit the first and second transmissions using spatial division multiple access
- 3 techniques.

- 4 12. A method, comprising:
- 5 making a comparison of a first indicator of a predicted duration of a first
- 6 transmission to a first electronic device with a second indicator of a predicted duration
- 7 of a second transmission to a second electronic device;
- beginning a transmission of a longer of the first and second transmissions; and
- beginning a transmission of a shorter of the first and second transmissions after
- a delay approximately equal to a difference between the predicted duration of the first
- transmission and the predicted duration of the second transmission;
- wherein the first and second transmissions use spatial division multiple access
- 13 techniques.
- 1 13. The method of claim 12, further comprising ending the first and second
- 2 transmissions at approximately a same time.
- 1 14. The method of claim 13, further comprising beginning an acknowledgment
- 2 timeout period after said ending the first and second transmissions.
- 1 15. The method of claim 12, further comprising receiving a first response from the
- 2 first electronic device and receiving a second response from the second electronic
- 3 device substantially simultaneously.
- 1 16. The method of claim 15, wherein said receiving the first and second responses
- 2 comprises receiving a beginning of the first and second responses approximately an
- 3 interframe space after an end of the first and second transmissions.

- 1 17. The method of claim 12, further comprising using data rates to determine the
- 2 predicted durations.

- 1 18. A machine-readable medium that provides instructions, which when executed
- 2 by a processing platform, cause said processing platform to perform operations
- 3 comprising:
- 4 determining predicted durations of multiple transmissions to be transmitted
- 5 from an electronic device;
- adjusting start times for at least some of the transmissions to cause the multiple
- 7 transmissions to end at approximately a same time; and
- 8 transmitting the multiple transmissions substantially simultaneously using the
- 9 adjusted start times and using spatial division multiple access techniques.
- 1 19. The medium of claim 18, wherein said determining comprises using data rates
- 2 to determine said predicted durations.
- 1 20. The medium of claim 18, wherein the operations further comprise receiving
- 2 responses to the multiple transmissions substantially simultaneously.
- 1 21. The medium of claim 20, wherein the operations further comprise initiating a
- timeout period for reception of an acknowledgment to at least one of the multiple
- 3 transmissions.
- 1 22. The medium of claim 20, wherein said receiving comprises receiving
- beginnings of the responses approximately an interframe space after an end of the
- 3 multiple transmissions.